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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/682,133	10/09/2003	Richard D. Dettinger	ROC920030237US1	1361 .	
46797 7590 09/12/2007 IBM CORPORATION, INTELLECTUAL PROPERTY LAW DEPT 917, BLDG. 006-1 3605 HIGHWAY 52 NORTH ROCHESTER, MN 55901-7829			EXAMINER		
			PHAM, KHANH B		
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			ART UNIT	PAPER NUMBER	
			2166		
			MAIL DATE	DELIVERY MODE	
			00/12/2007	DADED	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	
		10/682,133	DETTINGER ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Khanh B. Pham	2166	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with th	e correspondence address	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be vill apply and will expire SIX (6) MONTHS fr cause the application to become ABANDO	ON. The timely filed from the mailing date of this communication. The post of the communication of the communication of the communication.  The post of the communication of the	
Status				
2a)⊠	Responsive to communication(s) filed on 20 July This action is <b>FINAL</b> . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final.  nce except for formal matters,		
Disposit	ion of Claims			
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-17,26-41,50 and 51 is/are pending if 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-17,26-41,50 and 51 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or its and pers	vn from consideration.		
10)	The specification is objected to by the Examine. The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 2.	epted or b) objected to by the drawing(s) be held in abeyance. Sion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).	
Priority ι	ınder 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  See the attached detailed Office action for a list	s have been received. s have been received in Applic ity documents have been rece ı (PCT Rule 17.2(a)).	ation No ived in this National Stage	-
2)  Notic 3)  Infor	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4)  Interview Summa Paper No(s)/Mai 5)  Notice of Informa 6)  Other:	Date	

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Art Unit: 2166

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims **1-17, 26-41, 50-51** are rejected under 35 U.S.C. 102(a) as being anticipated by Bert Scalzo ("Oracle DBA Guide to Data Warehousing and Star Schema"), hereinafter "Scalzo".

As per claim 1, Scalzo teaches a method of managing execution of query operations in a data processing system comprising:

- "issuing, by a requesting entity, a request to perform a composite query operation defined by at least an initial query operation and a plurality of subsequent query operation to be executed against a data repository of the data processing system" at bottom of page 6, ("upserts" operation comprises update and insert operations) and page 7, (the "pro-C program" including "while" loop for executing multiple query operations on multiple records)
- "executing the initial query operation" at bottom of page 7, (executing
   "update\_command");

- "determining an operation status of the initial query operation" at top of page 8,
   ("if update fails because record not found");
- "selecting one of the plurality of subsequent query operations based on the operation status; performing the selected subsequent query operation" at top of page 8, (Executing insert\_command if update fails)
- "updating the operation status based on a result of the subsequent query operation" at page 7 (executing "fgets" to update operation status);
- "managing execution of any remaining subsequent query operations on the basis
  of the updated operation status" at page 7 (Checking the condition of the "while"
  loop to determine whether to continue execution or stop);
- "upon determining the composite query operation has completed, returning a result of the composite query operation to the request entity" at page 8
   (Termination of query execution if all records are processed).

As per claim 2, Scalzo teaches the method of claim 1, wherein "determining and managing are performed by a composite query operations manager" at pages 7-8.

As per claim 3, Scalzo teaches the method of claim 1, wherein "the requesting entity is an application and wherein the determining and managing are performed by a composite query operations manager" at pages 7-8.

As per claim 4, Scalzo teaches the method of claim 1, wherein "the initial and the subsequent query are SQL statement" at pages 7-8.

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As per claim 5, Scalzo teaches the method of claim 1, wherein "determining an operation status of the initial query operation comprises determining a number of items affected by the initial query operation" at pages 7-8.

As per claim 6, Scalzo teaches the method of claim 1, wherein "determining an operation status of the initial query operation comprises determining whether the initial query operation complete successfully" at page 8.

As per claim 7, Scalzo teaches the method of claim 1, wherein "determining an operation status of the initial query operation comprises determining, on the basis of a return code received upon completion of the initial guery operation, whether the initial query operation completed successfully" at page 8.

As per claim 8, Scalzo teaches the method of claim 1, wherein "managing" execution of the subsequent query operation comprises: executing the subsequent query operation only if the initial query operation did not complete successfully" at page 8.

As per claim 9, Scalzo teaches a method of managing execution of query operations in a data processing system comprising:

 "issuing, by a requesting entity, a request to perform a composite query operation defined by at least an initial query operation and a plurality of subsequent query" at page 6, "upsert operation";

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- "providing selection logic defining a next query operation of the composite query operation to e executed" at pages 7-8, the "Pro-C program";
- "providing a plurality of failure conditions for determining when a failure of the composite query operation occurs" at pages 7-8, the "Pro-C program";
- "managing, using a composite query operations manager, execution of the initial query operation and the plurality of subsequent query operation on the basis of the selection logic and the plurality of failure condition" at pages 7-8;
- "upon determining the composite query operation has completed, returning a result of the composite query operation to the request entity" at page 8
   (Termination of query execution if all records are processed).

As per claim 10, Scalzo teaches the method of claim 9, wherein at least one failure condition of the plurality of failure conditions indicates the initial query operation and an operation status of the initial query operation which indicates a failure of the composite query operation" at pages 7-8.

As per claim 11, Scalzo teaches the method of claim 10, wherein "each other failure condition of the plurality of failure conditions indicates a series of the initial query operation and at least one of the plurality of subsequent query operations, and an

operation status of the at least one of the plurality of subsequent operation which indicates a failure of the composite query operation" at pages 7-8.

As per claim 12, Scalzo teaches the method of claim 9, wherein "managing execution of the initial query operation and the plurality of subsequent query operations comprise a) "executing the initial query operation"; b) determining an operation status of the initial query operation"; c) determining, on the basis of the operation status and the plurality of failure condition, whether failure of the composite query operation occurred" d) "if no failure of the composite query operation occurred: i) determining the next operation to be executed from the plurality of subsequent query operations using the selection logic"; ii) "executing the next query operation"; iii) "determining, on the basis of the operation status of the next query operation"; iv) "determining, on the basis of the operation status and the plurality of failure conditions, whether failure of the composite query operation occurred"; v) "repeating step d) for at least one other of the plurality of subsequent query operations" at pages 7-8;

As per claim 13, Scalzo teaches the method of claim 12, wherein step c) and iv) comprises, if failure occurred: completing execution of the composite query operation, and returning a failure code as completion status of the composite query operation indicating a failure condition from the plurality of failure condition" at pages 7-8.

As per claim 14, Scalzo teaches the method of claim 12, wherein step b) and step iii) comprise determining whether the respective query operation complete successfully" at pages 7-8.

As per claim 15, Scalzo teaches the method of claim 12, wherein step b) and iii) comprise determining, on the basis of a return code received upon completion of the respective query operation, whether the respective query operation complete successfully" at pages 7-8.

As per claim 16, Scalzo teaches the method of claim 12, wherein step b) and iii) comprise determining whether the respective query operation completed successfully and, if the respective query operation completed successfully: completing executing the composite query operation" at pages 7-8.

As per claim 17, Scalzo teaches the method of claim 9, wherein "the initial and each subsequent query operation is an SQL statement" at pages 7-8.

Claims 26-41 and 50-51 recite a computer readable storage medium and a data processing system for performing similar method as in claims 1-17 and are therefore rejected by the same reasons.

## Response to Arguments

3. Applicant's arguments filed June 20, 2007 have been fully considered but they are not persuasive. The examiner respectfully traverses applicant's arguments.

Regarding claims 1, 26 and 50, applicant argued that "Scalzo only teaches the execution of an "UPDATE" operation or, upon failure, an <u>alternative</u> "INSERT" operation", but does not teaches a method "that include both executing both "an initial query operation" and one of a plurality of "subsequent query operation". On the contrary, Scalzo clearly teaches at pages 7-8 the step of executing an initial query operation (i.e. "update\_command"), and based on the operation status of the initial query (i.e., "if (sqlca.sqlcode == 1403)"), performing the subsequent operation. Further, Scalso teaches the UPDATE and INSERT operations are performed within a "WHILE" loop so that multiple operations are performed while the conditions of the WHILE loop are true. Scalso therefore teaches at least an initial query and a plurality of subsequent query operations being executed based on the operation status.

Regarding claims 9, 33, and 51, applicant argued that Scalzo does not teach a "method of managing execution of query operations in a data processing system" that includes "managing, using a composite query operation manager, execution of the initial query operation and the plurality of subsequent query operations on the basis of selection logic and the plurality of failure condition". Scalzo clearly teaches at pages 7-8 the step of executing an initial query operation (i.e. "update\_command"), and based on the plurality of failure conditions (i.e., "if (sqlca.sqlcode == 1403)" and if (sqlca.sqlcode !=0)), performing the subsequent operation. Further, Scalso teaches the

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UPDATE and INSERT operations are performed within a "WHILE" loop so that multiple operations are performed while the conditions of the WHILE loop are true. Scalso therefore teaches at least an initial query and a plurality of subsequent query operations being executed based on the basis of selection logic and the plurality of failure conditions" as claimed.

In light of the foregoing arguments, the 35 U.S.C 102 and 103 rejections are hereby sustained.

### Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh B. Pham whose telephone number is (571) 272-

4116. The examiner can normally be reached on Monday through Friday 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571) 272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Khanh B. Pham **Primary Examiner** Art Unit 2166

> > Kyham

September 4, 2007